

WORK LOG

1977 BMW R75/7

VIN 6120976

License plate: 8737 (WA Collector Vehicle)

Mileage	Date	Service
32,854	8/4/2014	<p>Disassembly begun; all major assemblies removed for assessment, refinishing, parts upgrade, etc.</p> <ul style="list-style-type: none">• Transmission removed from engine, clutch & flywheel removed.• Cylinder assemblies & carburetors removed, to be sent to BeemerShop.• Engine removed from frame.• Steering head and swingarm bearing races removed using special tools from Cycle Works.• Frame fully stripped, parts bagged & tagged.• Small area of rust noted in bottom left of fuel tank. Fuel tank interior stripped with SuperClean, then Clean & Strip, then laquer thinner. Confirmed clean bare metal throughout entire interior, treated with Caswell epoxy liner.
		<p>Outside work:</p> <ul style="list-style-type: none">• Frame and related parts to VEI for sandblasting & powdercoating.• Instrument cluster rebuild: Terry Vria (aka Wirespokes), 503-421-5782, terryvria@hotmail.com, 1/1/15. Cluster disassembled, all parts cleaned & lubricated, speedo & tach calibrated, and loose exterior bezel reattached.• Cylinders/pistons, heads, and carburetors sent to Ted Porter at BeemerShop:<ul style="list-style-type: none">○ Cylinder & head parts and carburetors sent for assessment and work. Full head overhaul including new valves, seats, and valve guides. Cylinders found to be slightly out of round, sent to Millennium Technologies for corrective boring, Nickel Silicon Carbide (Nikasil) lining, and final bore to OEM spec. Original pistons cleaned and reinstalled with new Nikasil-appropriate (cast iron) rings.○ Flywheel lightened and balanced. Lightened to 5.75 lbs.○ Carburetors fully rebuilt including throttle plate shaft o-rings.• Transmission rebuilt by Mark Eddy at Vallantine Motor Works in Seattle. Gunk noted in bottom of housing, no damaged or worn parts noted, gear shafts shimmed correctly and transmission reassembled with all new seals.• Starter sent to Motorrad Elektrik for rebuild. Bushings & brushes replaced, all parts cleaned & lubricated, exterior repainted.• Wheels sent to Woody's Wheel Works for complete rebuild: full disassembly, polish rims, bead blast & clearcoat hubs, new HD SS spokes & nipples, new wheel bearings with preload set & greased.• Body parts (fuel tank, rear fender, front fender, side covers, headlight bucket, headlight mounts) sent to SIKwerks for repaint: classic Avus black with white double pinstripes and clearcoat in classic BMW Motorrad theme.
	2016	<p>Reassembly:</p> <ul style="list-style-type: none">• Engine:<ul style="list-style-type: none">○ Clutch and flywheel removed. Rear main seal replaced with new style seal, oil pump cover removed, oil pump parts inspected, no abnormal wear or anomalies noted, o-ring replaced, cover reinstalled.○ Lightened/balanced flywheel installed (flywheel weight now 5.7 lbs).○ New OEM clutch pressure plate, friction disc, compression ring, and diaphragm spring installed. NOTE: diaphragm spring from R100 used as HD part.○ Removed aftermarket (Seibenrock) deep engine sump, no abnormal content or contaminants noted in pan, entire crankcase area clean. Later model '81 oil sump & oil pickup (larger capacity than original vintage) installed (from Beemer Shop) with new gasket. Oil pickup mount bolts tightened with blue Locktite, pan gasket sealed with thin coat of Permatex Ultra Grey RTV.

- All parts on front of engine removed, timing case removed. Some wear noted on crankshaft sprocket. Crankshaft sprocket, timing chain, chain follower (updated style), and follower tension spring all replaced w/OEM parts. New seals in cover installed, cover reinstalled with new gaskets.
- Cylinders (after work by BeemerShop, see detailed invoice) reinstalled with new pushrod seals, Permatex UltraGrey RTV sealant used on thin standard base gaskets. Heads torqued to 26 ft.lbs., rocker shaft endplay set, valves adjusted to .006"/.010" for initial break-in.
- Carburetors (full overhaul with new OEM parts incl. throttle plate o-rings by BeemerShop) including all new intake tubes & parts.
- Crankcase breather area/parts inspected, disc-type valve assembly replaced with new style metal reed valve assembly.
- New OEM oil filter (hinged type) and gaskets/o-rings installed. Note: one washer under o-ring installed and measured correctly.
- New spark plugs: Bosch W5DC
- Transmission reinstalled: splines lubed with Honda Moly 60, clutch release mechanism including throwout bearing parts inspected, cleaned, reinstalled with new rubber parts & piston seal.
- Electrical:
 - New Omega 600W alternator rotor & stator installed incl. new brushes. Rotor brush surface polished & cleaned.
 - New Omega diode board installed with solid mounts.
 - New Alpha Classic electronic ignition installed.
 - Original wiring harness cleaned, inspected, and re-installed with all connectors treated with Deoxit and all connections inspected and adjusted.
 - Overhauled Bosch starter (Motorrad Elektrik) reinstalled.
 - New/improved battery cables from EME installed.
 - New high-energy "blue" Bosch coils installed
 - New replica spark plug cables installed
 - New Bosch W5DC spark plugs installed
 - New Odyssey PC680 battery installed with new Motoren-Israel powdercoated stainless steel battery bracket sized specifically for PC680 (battery 10 lbs lighter than stock lead/acid battery).
- Chassis:
 - Forks disassembled, all parts inspected, reassembled using overhaul kit from Tom Cutter. HyperPro spring kit p/n SP-BM05-SSA001 with 0075X springs installed using supplied Belray 5W fork oil. Filled with 240cc/leg fluid.
 - New steering head bearings installed, greased with Valvoline Durablend synthetic/moly grease. Triple clamp reinstalled.
 - ToasterTan CNC aluminum upper tripleclamp installed with new SS top/center nut, all fork assembly components aligned & torqued to spec.
 - Installed new swingarm pivot bearings and seals, greased with Valvoline Durablend moly grease, set bearing preload, torqued nuts
 - Cleaned rear drive and rear brake assembly. Brake shoes appear nearly unworn. Lubed brake pivots & reinstalled, lubed drive splines with Honda Moly 60 & reinstalled.
 - New Continental Classic Attack radial tires & tubes installed on rebuilt wheel assemblies (after rebuild work at Woody's Wheels), wheels balanced.
 - Reinstalled F/R wheel assemblies on chassis.
 - Front brake:
 - New later model handlebar-mounted front brake master cylinder assembly p/n XXXXXXXX installed (from Beemer Shop, 14mm piston) with p/n XXXXXX throttle cam and 34-32-1-241-67 junction block conversion.
 - New Spiegler braided stainless steel brake lines installed
 - Front caliper disassembled, inspected, and reassembled with new piston seal & dust seal.
 - New EBC FA22 High Performance Organic brake pads installed.
 - Caliper mounted, mount cam lubed, pad alignment set.
 - New YSS rear shocks (model info here)

		<ul style="list-style-type: none"> ○ New Brown sidestand installed in place of stock unit. ○ New OEM exhaust system installed including all pipes, mufflers, and hangars. ○ New Flanders p/n 650-02171 BMW /2 Low Euro Bar handlebars installed ○ New clutch cable (short version for low bars) ○ New speedo cable (short version for low bars) ○ New OEM grips installed ○ All body parts reinstalled ○ Refilled final drive, drive shaft, and transmission with Castrol 80W-90 Limited Slip GL-5 gear oil ○ Filled engine with 2.5 qts BMW 20W-50 engine oil <p>NOTE: checked dipstick calibration with new oil sump</p>
32,854	6/15/2018	<p>Continued assembly:</p> <ul style="list-style-type: none"> ● Reinstalled circuit board in headlight, inspected all wiring connectors and reconnected. ● Installed H4 LED headlight & parking light bulbs
32,854	8/11/2019	<p>Completed assembly:</p> <ul style="list-style-type: none"> ● New BMW OEM seat installed. ● Verified all wiring connections and functions normal ● Spun engine on starter to fully pressurize oil system, pressurized normally, verified oil was pumping to rocker arms. <p>First start sequence:</p> <ul style="list-style-type: none"> ● Ignition timing set both S and F ● Carbs: idle mixture/speed and sync set with Grok Harmonizer
33,184	5/18/2020	<p>Break-in service:</p> <ul style="list-style-type: none"> ● Oil change: Bel-Ray EXP Synthetic Blend 4-Stroke Motor Oil 20W-50 ● Oil filter change, OEM filter ● Torque cylinder heads, 25 ft/lbs ● Adjusted valves to .004" & .008" ● Recheck idle mixture & carb sync with Grok Harmonizer